



A CELEBRATION OF WEST POINT AUTHORS

27 February 2017 at 1615

Haig Room

Jefferson Hall Library and Learning Center



A Celebration of West Point Authors

Today, we celebrate the more than 100 works of scholarship produced at the Academy between July and December 2016. In addition, we will hear four short excerpts of publications or presentations around the topic of security.

Welcome and Introduction

Christopher Barth
Librarian and Associate Dean

Dean's Remarks

BG Cindy Jebb
Dean of the Academic Board

Selected Speakers

- LTC Remi M. Hajjar, "Effectively Working with Military Linguists: Vital Intercultural Intermediaries."
- LTC Tanya Estes, LTC James Finocchiaro, Dr. Jean Blair, 2LT Johnathan Robison, 2LT Justin Dalme, 2LT Michael Eman, 2LT Luke Jenkins, and Dr. Edward Sobiesk. "A Capstone Design Project for Teaching Cybersecurity to Non-technical Users."
- Dr. Kenneth McDonald, 2LT Joshua Akers, 2LT Forrest Bartz, 2LT Daniel Beck, 2LT Israel Castro, and LTC Robert Prins, "Food Security Network Modeling."
- Dr. Robert Person, "Balance of Threat: The Domestic Insecurity of Vladimir Putin."

Light refreshments served following the program

Department of Behavioral Sciences and Leadership COL Everett Spain, Department Head

Ender, Morten, CDT Danielle Nuszowski, CDT Charles Atkins, and CDT Emma Spell. "LGBT and what's the Q? Perspectives on Transgender Issues in the US Military." *Proceedings of the 2016 Inter-University Seminar on Armed Forces and Society Conference, Canada, Ottawa*. Ottawa: Inter-U Seminar, 2016.

Hajjar, LTC Remi. "Defining Success in the Military Advising Mission." *Proceedings of the 2016 Inter-University Seminar on Armed Forces and Society Conference, Canada, Ottawa*. Ottawa: Inter-U Seminar, 2016.

Hajjar, LTC Remi. "Defining Success in the Military Advising Mission." *Journal of Political and Military Sociology: An Annual Review* 44 (2016): 51-78.

Hajjar, LTC Remi. "Effectively Working with Military Linguists: Vital Intercultural Intermediaries." *Armed Forces & Society* 43, no. 1 (2016): 92-114.

Department of Chemistry and Life Science COL Leon Robert, Department Head

Armstrong, LTC Matthew J., Antony N. Beris, and Norman J. Wagner. "An Adaptive Parallel Tempering Method for the Dynamic Data-Driven Parameter Estimation of Nonlinear Models." *American Institute of Chemical Engineering Journal* (November 2016). doi: 10.1002/aic.15577.

Gilchuk, Pavlo, **LTC Timothy M. Hill**, Clifford Guy, Sean R. McMaster, Kelli L. Boyd, Whitney A. Rabacal, Pengcheng Lu, et al. "A Distinct Lung-Interstitial-Resident Memory CD8+ T Cell Subset Confers Enhanced Protection to Lower Respiratory Tract Infection." *Cell Reports* 16, no. 7 (August 2016): 1800-1809. doi: 10.1016/j.celrep.2016.07.037.

Hershfield, MAJ Jeremy, Conrad Wilmoski, and Kelly Meister. "Before the Next Outbreak: Prepare for Everything Together." *InterAgency Journal* 7, no. 3 (2016): 70-80.

Kelly, Michael J. B., **MAJ Lucas B. Fallot**, Jeffrey L. Gustafson, and B. Mikael Bergdahl. "Water Mediated Wittig Reactions of Aldehydes in the Teaching Laboratory: Using Sodium Bicarbonate for the in Situ Formation of Stabilized Ylides." *Journal of Chemical Education* 93, no. 9 (July 18, 2016): 1631-1636. doi: 10.1021/acs.jchemed.6b00206

O'Donovan, Kevin J. "Intrinsic Axonal Growth and the Drive for Regeneration." *Frontiers in Neuroscience* 10 (October 27, 2016). doi: 10.3389/fnins.2016.00486.

Song, Hongjun, Jenna M. Rosano, Yi Wang, Charles J. Garson, Balabhaskar Prabhakarapandian, Kapil Pant, George J. Klarmann, Alan Perantoni, **LTC Luis M. Alvarez** and Eva Laide. "Identification of Mesenchymal Stem Cell Differentiation State Using Dual-Micropore Microfluidic Impedance Flow Cytometry." *Analytical Methods - Royal Society of Chemistry*, no. 41 (2016): 7437–44. doi: 10.1039/C6AY01377E.

Department of Civil and Mechanical Engineering
COL Daisie D. Boettner, Department Head

Biering, MAJ Celio, COL Joe Hanus, and Rahul Verma. "Day In Court - Teaching Contract Disputes in Construction Management." *American Society for Engineering Education's 2016 National Conference*. New Orleans, LA: ASEE, 2016.

Biggerstaff, MAJ Adrian and COL Brad Wambeke. "Investigation of Probabilistic Multiple- Choice Assessments in a Structural Design Course." *American Society for Engineering Education's 2016 National Conference*. New Orleans, LA: ASEE, 2016.

Bruhl, LTC Jake, LTC Richard Gash, and MAJ William Pyant. "Help Me Help You: Educational Value, Perceived Usefulness, and Creativity of Student Generated Course Review Material." *American Society for Engineering Education's 2016 National Conference*. New Orleans, LA: ASEE, 2016.

Bruhl, LTC Jake, COL Joe Hanus, LTC Paul Moody, and Led Klosky. "Mosul Dam: A Study in Complex Engineering Problems." *American Society for Engineering Education's 2016 National Conference*. New Orleans, LA: ASEE, 2016.

Chewning-Kulick, CDT Travis, CDT Marvis Lewis, COL Michael Benson, LTC Joshua Keena, and LTC Matthew Posner (KACH). "Risk Assessment of Air Cannons at Sporting Events." *ASME International Mechanical Engineering Congress & Exposition*. Phoenix, AZ: ASME, 2016.

Cremens, CDT Michael, CDT Austin Lachance, SPC Chase Snow, LTC Michael Benson, COL Bret Van Poppel, Claire Verhulst, Gregory Rodebaugh, and Christopher Elkins. "Experimental and Computational Flow Analyses of a Single Jet Impinging on a Flat Plate." *52nd AIAA/SAE/ASEE Joint Propulsion Conference*. Salt Lake City, UT: American Institute of Aeronautics and Astronautics (AIAA), 2016. doi: 10.2514/6.2016-4856.

Geiser, Kyle, William Maier, Nicholas Ives, **Gunnar Tamm**, and MAJ Brodie Hoyer. "Field Improvised Electric Arc Welder Technical Paper Publication: IMECE2016-67890." *ASME International Mechanical Engineering Congress & Exposition*. Phoenix, AZ: ASME, 2016.

Lanzi, MAJ Joseph T. (KACH), 2LT Justin Felix, MAJ Christopher J. Tucker (KACH), Kenneth L. Cameron, John Rogers, LTC Brett D. Owens (KACH), and COL Steven J. Svoboda (KACH). "Comparison of the Suture Anchor and Transosseous Techniques for Patellar Tendon Repair - May 13, 2016." *American Journal of Sports Medicine* 44, no. 8 (May 13, 2016): 2076–80. doi: 10.1177/0363546516643811.

Melnyk, LTC Rich, MAJ Drew Curriston, MAJ Brent Pafford, and CPT Dan Brown. "West Point's Academic Flight Program." *Army Aviation Association of America (AAAA)* 2016.

Melnyk, LTC Rich, MAJ William Pyant, COL Daisie Boettner, and CPT Dan Brown. "Assessment of Implementing an Undergraduate, Integrated Thermal-Fluids Course Sequence on the Results of the Fundamentals of Engineering Exam (FEE)." *American Society for Engineering Education's 2016 National Conference*. New Orleans, LA: ASEE, 2016.

Meyer, COL Fred. "What's Your Story: Connecting Teaching and Learning." Presentation at the *Fall Convention of the American Concrete Institute*, Philadelphia, PA, October 2016.

Novoselich, LTC Brian and David B. Knight. "Shared Leadership in Mechanical Engineering-Centric Capstone Design Teams: A Comparison of Military and Civilian Engineering Programs." *American Society for Engineering Education's 2016 National Conference*. New Orleans, LA: ASEE, 2016.

Spirnak, 2LT Jonathan, 2LT Marc Samland, 2LT Brant Tremont, 2LT Alfred McQuirter, CDT Elliott Williams, COL Mike Benson, COL Bret Van Poppel, Claire Verhulst, Christopher Elkins, Lauren Burton, John Eaton, and Mark Owkes. "Validation of Magnetic Resonance Thermometry Through Experimental and Computational Approaches." *52nd AIAA/SAE/ASEE Joint Propulsion Conference*. Salt Lake City, UT: American Institute of Aeronautics and Astronautics (AIAA), 2016. doi:10.2514/6.2016-4741.

Stache, CPT Jeremy, COL Brad Wambeke, and COL Joe Hanus. "Road Builders - Integrating Transportation and Construction Engineering Through Experiential Learning." *American Society for Engineering Education's 2016 National Conference*. New Orleans, LA: ASEE, 2016.

Williams, CDT Elliott, 2LT Jonathan Spirnak, COL Michael Benson, 2LT Marc Samland, 2LT Brant G. Tremont, 2LT Alfred L. McQuirter, COL Bret Van Poppel, and Claire M. Verhulst. "Magnetic Resonance Thermometry Experimental Setup: A Portable Heat Transfer Experiment." *ASME International Mechanical Engineering Congress & Exposition*. Phoenix, AZ: ASME, 2016.

**Department of Electrical Engineering and Computer Science
COL Barry Shoop, Department Head**

Arney, Chris, and 2LT Joseph Kozlak. "Cyber War." Review of *Cyber War*, by Richard Clark and Robert Knake, *Cyber Defense Review* 1, no. 2 (2016): 125-127. <http://www.cyberdefensereview.org/wp-content/uploads/2016/10/CDR-FALL2016.pdf>.

Arney, Chris, MAJ Natalie Vanatta (D/Math), and MAJ Thomas Nelson. "Cyber Education via Mathematical Education." *Cyber Defense Review* 1, no. 2 (2016): 49-60.

Burk, Rosemary A. and **Jan Kallberg.** "Bring on Cyber Attack – The Increased Predatory Power of the Restrained Red Queen in a Nation State Conflict." *Cyber Defense Review* 1, no. 2 (2016): 61-72.

Estes, LTC Tanya, LTC James Finocchiaro, Jean Blair, 2LT Johnathan Robison, 2LT Justin Dalme, 2LT Michael Eman, 2LT Luke Jenkins, and Edward Sobiesk. "A Capstone Design Project for Teaching Cybersecurity to Non-technical Users." *Association for Computing Machinery's 2016 Special Interest Group for Information Technology Education Conference*. Boston: IEEE, 2016. doi: 10.1109/LAWP.2015.2503264.

Johnson, 2LT Ryan, 2LT Jessie Lass, and MAJ W. Michael Petullo. "Studying Naïve Users and the Insider Threat with SimpleFlow." *Proceedings of the 8th ACM CCS International Workshop on Managing Insider Security Threats*. Vienna, Austria: ACM (2016): 35-46. doi: 10.1145/2995959.2995960.

Kilgore, Ian M., **Shabir A. Kabriri, Andrew W. Kane, and Michael B. Steer.** "The Effect of Chaotic Vibrations on Antenna Characteristics." *IEEE Antennas and Wireless Propagation* 15 (2016): 1242-1244. doi: 10.1109/LAWP.2015.2503264.

Wilkerson, Stephen, **LTC Christopher Korpela, Kevin Chang, and Andrew Gadsden.** "Aerial Swarms as Asymmetric Threats." *2016 International Conference on Unmanned Aircraft Systems (ICUAS)*. Arlington, VA: IEEE (2016): 381-386. doi: 10.1109/ICUAS.2016.7502615.

**Department of English and Philosophy
COL David Harper, Department Head**

Harper, COL David A. "Critical Mass: Contextualizing Bentley's *Paradise Lost*." In *Milton in the Long Restoration*, edited by Blair Hoxby and Ann Baynes Coiro, 22-40. Oxford: Oxford University Press, 2016. doi: 10.1093/acprof:oso/9780198769774.003.0003.

Nelson, Cassandra. "Seeing is Believing: What Flannery O'Connor Meant by 'Vision'." *Commonweal Magazine* 143, no. 18 (November 2, 2016). <https://www.commonwealmagazine.org/seeing-believing>.

Nelson, COL John. "Mama's Still Alive Today: Giving Name and Voice to Albert Camus' Long-silenced Arab." Presentation at the Annual Conference of the Pacific Ancient and Modern Language Association, Pasadena, CA, November 11-13, 2016.

Query, Patrick. "Let Us Go: T.S. Eliot and Migration." Presentation at the Annual Meeting of the T.S. Eliot Society, Rapallo, Italy, June 17-21, 2016.

**Department of Geography and Environmental Engineering
COL Wiley Thompson, Department Head**

Butkus, Mike, LTC Jeff Starke, LTC Phil Dacunto, and Kim Quell. "3D Visualization in Environmental Engineering Design Courses: If the Design Fits, Print It!" *American Society for Engineering Education's 2016 National Conference*. New Orleans, LA: ASEE, 2016. <https://www.asee.org/public/conferences/64/papers/14653/view>.

Dacunto, LTC Phil. "Academic 'Predestination': Does It Exist?" *American Society for Engineering Education's 2016 National Conference*. New Orleans, LA: ASEE, 2016. <https://www.asee.org/public/conferences/64/papers/14686/view>.

Du, MAJ Ran, Mike Butkus, and LTC Jeff Starke. "Incorporating Risk and Uncertainty into Undergraduate Environmental Engineering Curricula." *American Society for Engineering Education's 2016 National Conference*. New Orleans, LA: ASEE, 2016. <https://www.asee.org/public/conferences/64/papers/14702/view>.

Plante, CPT Luke. "Engineering Denitrification - Nitrate Reduction to Nitrite." Presentation at the *Water Environment Federation/International Water Association Conference*, Denver, CO, July 13, 2016.

Richmond, Amy, MAJ Dylan Malcomb, and 1LT Jake Link. "The Impact of Pollution in a Multi-Country Lake: A Case Study of Lake Victoria in the Ugandan Context." In *Water Planet: The Culture, Politics, Economics, and Sustainability of Water on Earth*, edited by Camille Gaskin-Reyes, 84-87. Santa Barbara, CA: ABC-CLIO, 2016.

Rogers, MAJ Richard, Michael Butkus, MAJ Barrett Thomas, and LTC Jeffrey Starke. "Assessing and Inspiring Lifelong Learning in an Undergraduate Environmental Engineering Seminar." *American Society for Engineering Education's 2016 National Conference*. New Orleans, LA: ASEE, 2016. <https://www.asee.org/public/conferences/64/papers/16434/view>.

Ware, LTC Jared. “Developing a Tactical-Level Geospatial Course for Army Engineers.” *2016 Esri User Conference*. San Diego, CA: ESRI, 2016. http://proceedings.esri.com/library/userconf/proc16/papers/243_693.pdf.

Ware, LTC Jared. “Integrating UAVs into a Modern Geospatial Curriculum.” Presentation at *ENVI Analytics Symposium*, Boulder, CO, August 23-24, 2016.

Ware, LTC Jared. “Integrating UAVs into a Modern Geospatial Curriculum.” Presentation at the *2016 Esri User Conference*, San Diego, CA, June 27-30, 2016.

Zgonc, MAJ Dave, LTC Phil Dacunto, 2LT Emily Ezerins, 2LT Dalton Combs, and 2LT Jake Palmer. “The Nexus of Science and Engineering: Structuring Individual Studies to Inform Senior Design Projects.” *American Society for Engineering Education’s 2016 National Conference*. New Orleans, LA: ASEE, 2016. <https://www.asee.org/publications/conferences/64/papers/15193/view>.

Department of History COL Ty Seidule, Department Head

Estes, Steven, **LTC Joel M. Miller**, and Marcus D. Majure, “*Characteristics of Army Reserve Officer Training Corps Leader Development*,” Arlington VA: Association of the United States Army, 2016. <https://www.ausea.org/system/files/publications/LWP-111-ROTC-Leader-Development.pdf>.

Frey, David Stephen. "A Smashing Success? The Paradox of Hungarian Cultural Imperialism in Nazi New Order Europe 1939-42." *Journal of Contemporary History* 51, no. 3 (2016): 577-605. <http://journals.sagepub.com/doi/pdf/10.1177/0022009415622804>.

McDonald, Robert M. S. *Confounding Father: Thomas Jefferson’s Image in His Own Time*. Charlottesville VA: University of Virginia Press, 2016.

Rogers, Clifford J. “La Batalla de Poitiers (1356),” *Revisita de Historia Militar y Política: Antigua y Medieval*, no. 38 (2016).

Department of Mathematical Sciences COL Steven Horton, Department Head

Archer, Edward, **Diana M. Thomas**, Samantha M. McDonald, Gregory Pavela, Carl J. Lavie, James O. Hill, and Steven N. Blair. “The Validity of US Nutritional Surveillance: USDA’s Loss-Adjusted Food Availability Data Series 1971-2010.” *Current Problems in Cardiology* 41, no. 11-12 (November 2016): 268–92. doi: 10.1016/j.cpcardiol.2016.10.007.

Bromberg, Lisa. “Navigating in the Cayley Graph of $SL(2, \mathbb{F}_p)$ and Applications to Hashing.” *84th Military Operations Research Symposium*. Quantico, VA: MORS, 2016.

Costa, Fr Gabriel. *56:The Streak*. Secaucus, NJ: MLB Network, 2016. TV.

Crawford, Brian, Raluca Gera, Jeffrey House, Thomas Knuth, and **CPT Ryan Miller.** “Graph Structure Similarity Using Spectral Graph Theory.” In *Complex Networks & Their Applications V: Proceedings of the 5th International Workshop on Complex Networks and their Applications (COMPLEX NETWORKS 2016)*, Studies in Computational Intelligence 693, edited by Hocine Cherifi, Walter Quattrociocchi, Sabrina Gaito, and Alessandra Sala. Milan, Italy: Springer Nature, 2016. doi: 10.1007/978-3-319-50901-3_17.

Crawford, Brian, Raluca Gera, **CPT Ryan Miller**, and Bijesh Shrestha. “Community Evolution in Multiplex Layer Aggregation.” Edited by Ravi Kumar, James Caverlee, and Hanghang Tong. *2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)*. San Francisco, CA: IEEE, 2016. doi: 10.1109/ASONAM.2016.7752395.

Grymes, MAJ Jamie. “Military Applications of Approximate Dynamic Programming: Optimizing Helicopter Lift Operations.” *INFORMS Annual Meeting*. Nashville, TN: Institute for Operations Research and the Management Sciences, 2016.

Heymsfield, Steven, B. Bourgeois, and **Diana M. Thomas.** “Assessment of Human Energy Exchange: Historical Overview.” *European Journal of Clinical Nutrition* November 23, 2016. doi: 10.1038/ejcn.2016.221.

Heymsfield, Steven, Cristina Gonzalez, **Diana M. Thomas**, Kori Murray, Guang Jia, Erik Cattrysse, Jan Pieter Clarys, and Aldo Scafoglieri. “Adult Human Ocular Volume: Scaling to Body Size and Composition.” *Anatomy & Physiology: Current Research* 6, no. 5 (2016). doi: 10.4172/2161-0940.1000239.

Jackson, CPT Sandra, LTC Keith DeGregory, and CPT Matthew Fletcher. “Containing the Mess of Optional Meals via Approximate Dynamic Programming.” *INFORMS Annual Meeting*. Nashville, TN: Institute for Operations Research and the Management Sciences, 2016.

Kuiper, CPT Patrick, Stephan Kolitz, and Vahid Tarokh. “Base Camp Quality of Life Standardization and Improvement.” *IEEE International Carnahan Conference on Security Technology*. Orlando, FL: IEEE, 2016.

Kuiper, CPT Patrick. “Base Camp Quality of Life Standardization and Improvement.” *84th Military Operations Research Symposium*. Quantico, VA: MORS, 2016.

McInvale, COL Doug and Theodore Hromadka. “Cumulative Departure Model of the Cryosphere During the Pleistocene – an Application in Computational Engineering Mathematics.” *AEG 2016 Conference on Geosciences*. Hawaii, 2016.

Mitropoulos, Alexander N., Benedetto Marelli, Giovanni Perotto, Jason Amsden, David L. Kaplan, and Fiorenzo G. Omenetto. “Towards the Fabrication of Biohybrid Silk Fibroin Materials: Entrapment and Preservation of Chloroplast Organelles in Silk Fibroin Films.” *RSC Advances* 6, no. 76 (2016): 72366–70. doi: 10.1039/c6ra13228f.

Mogensen, MAJ Matthew. “Capacitated Helicopter Routing Problem: Heuristic Design.” *84th Military Operations Research Symposium*. Quantico, VA: MORS, 2016.

Nelson, MAJ Russell, Hong Zhou, and Susan Sanchez. “Optimal Design of Piezoelectric Materials for Maximal Energy Harvesting.” *INFORMS Annual Meeting*. Nashville, TN: Institute for Operations Research and the Management Sciences, 2016.

Rao, Prasada, **Theodore Hromadka**, Chris Huxley, D. Souders, Neil Jordan, Chung-Cheng Yen, **Elizabeth Bristow (D/CME), MAJ Celio Biering (D/CME), COL Steven Horton**, and Bethany Espinosa. “Assessment of Computer Modeling Accuracy in Floodplain Hydraulics.” *International Journal of Modelling and Simulation* December 20, 2016. doi: 10.1080/02286203.2016.1261218.

Salafia, Carolyn M., **Diana M. Thomas**, Drucilla J. Roberts, Jennifer K. Straughen, Patrick M. Catalano, and Gabriela Perez-Avilan. “First Trimester Detection of Placental Disease: Challenges and Opportunities.” *American Journal of Perinatology* 33, no. 13 (October 21, 2016): 1306–12. doi: 10.1055/s-0036-1586508.

Scioletti, LTC Michael S., Johanna K. Goodman, Paul A. Kohl, and Alexandra M. Newman. “A Physics-Based Integer-Linear Battery Modeling Paradigm.” *Applied Energy* 176 (August 2016): 245–57. doi: 10.1016/j.apenergy.2016.05.023.

Seminelli, MAJ Michael. “Implementing Discrete Event Simulation to Improve Optometry Clinic Operations.” *84th Military Operations Research Symposium*. Quantico, VA: MORS, 2016.

Seminelli, MAJ Michael, James Wilson, and Brandon McConnell. “Implementing Discrete Event Simulation to Improve Optometry Clinic Operations.” *2016 Winter Simulation Conference (WSC)*. Washington, D.C.: Institute of Electrical and Electronics Engineers, 2016.

Thomas, Diana M. “Applying Big Data to Mathematical Modeling of Energy Balance.” *American Heart Association Scientific Sessions*. New Orleans: American Heart Association, 2016.

Thomas, Diana M. “Mathematical Modeling to Identify Behavioral and Psychosocial Predictors of Bariatric Surgery Outcomes.” *Obesity Week 2016*. New Orleans: American Society for Metabolic and Bariatric Surgery, 2016.

Williams, MAJ James, MAJ Britton Landry, MAJ Matthew Mogensen, and Theodore Hromadka, “Computational Vector Mechanics in Atmospheric and Climate Modeling “ in *Topics in Climate Modeling*, edited by T. Hromadka and P. Rao, 1-28. Croatia: InTech, 2016.

Department of Physics and Nuclear Engineering COL Edward Naessens, Department Head

Fekete, Paula, CDT Calvin Nguyen, and CDT Ryan Hellmers, “History of the West Point Observatories and a History of Astronomy Instruction at the US Military Academy”. Presentation at the *American Association of Physics Teachers, New England Section Fall Regional*, Middletown, CT, October 21-23, 2016.

Department of Social Sciences COL Suzanne Nielsen, Department Head

Bate, MAJ Jonathan. "What Comes After We Retake Mosul? The Case for Using 'Tactical Economics.'" *Foreign Policy Best Defense* (Blog). September 15, 2016. <http://foreignpolicy.com/2016/09/15/what-comes-after-we-retake-mosul-the-case-for-using-tactical-economics/>.

Bell, MAJ Patrick, Arie Perliger, Riley Post, Darren Hudson, Donna Mitchell, and Ryan Williams. "Rethinking the Water-Food-Climate Nexus and Conflict: An Opportunity Cost Approach." *Applied Economic Perspectives & Policy* 38, no. 4 (December 2016): 563-577. <http://aepp.oxfordjournals.org/content/38/4/563.full?keytype=ref&ijkey=fmWKfuEJ2W4dlB7>.

Cal, MAJ Nerea M. “Crossing the Rubicon: Identifying and Responding to an Armed Cyber-Attack.” Presentation at the International Conference on Cyber Security (CyCon US ‘16), Washington, D.C., October 21-23, 2016.

Colas, Brandon. "What Does Dabiq Do? ISIS Hermeneutics and Organizational Fractures within Dabiq Magazine." *Studies In Conflict & Terrorism* 40, no. 3 (March 2017): 173-190. doi: 10.1080/1057610X.2016.1184062.

Kofoed, Michael S. “The Effect of the Business Cycle on Freshman Financial Aid.” *Contemporary Economic Policy* (Published online 27 August 2016). doi: 10.1111/coep.12192.

Kofoed, Michael S. and Todd Jones. “Peer Effects and Occupational Choice: Evidence from Randomly-Assigned Peer Groups at West Point.” Presentation at the Southern Economic Conference, Washington, D.C., November 19-21, 2016.

Gilpin, Gregory and **Michael S. Kofoed**. “Employer-Sponsored Education Assistance and MBA Quality: An Application of the Alchian-Allen Substitution Hypothesis.” Presentation at the Southern Economic Conference, Washington, D.C., November 19-21, 2016.

Liebert, Hugh. *Plutarch's Politics: Between City and Empire*. Cambridge: Cambridge University Press, 2016.

Person, Robert. “Putin will make Russia’s elections this Sunday the most tightly controlled in 16 years. Here’s why.” *Washington Post Monkey Cage* (Blog), September 16, 2016, https://www.washingtonpost.com/news/monkey-cage/wp/2016/09/16/no-you-wont-see-russians-protesting-a-putin-win-on-sunday-even-if-his-party-really-lost/?utm_term=.79338ccf78b1.

Department of Systems Engineering **COL Robert Kewley, Department Head**

Alexander, 2LT Ryan, 2LT Matthew Altamirano, 2LT Saruul Batdorj, 2LT Matthew Brooks, 2LT Pascal Brun, 2LT Antelmo Del Angel, 2LT Alexander de la Rosa, MAJ Craig Brewer, and Michael Deible (CME). “System for Corrosion Inspection and Monitoring.” *Industrial and Systems Engineering Review* 4, no. 2 (November 12, 2016): 82–87. http://watsonojs.binghamton.edu/index.php/iser/article/view/58/pdf_19.

Bianchi, LTC Anthony, 2LT John Barnett, 2LT William Dempsey, 2LT Matthew Giachinta, 2LT Matt Hugenberg, and 2LT Alijah Talley. “Applying Value-Focused Thinking to a Make Versus Buy Decision.” *Industrial and Systems Engineering Review* 4, no. 2 (November 12, 2016): 171–77. http://watsonojs.binghamton.edu/index.php/iser/article/view/64/pdf_27.

Blash, 2LT Allen, 2LT William Butler, 2LT Lindy Clark, 2LT Kyle Fleming, and LTC Jennifer Kasker. “Engineered Resilient System Life Cycle Costing Model.” *Industrial and Systems Engineering Review* 4, no. 2 (November 12, 2016): 149–55. http://watsonojs.binghamton.edu/index.php/iser/article/view/66/pdf_24.

Choi, 2LT Duke, 2LT Kelvin Hockenbraugh-White, 2LT Jessica McAllister, 2LT Christian McKenrick, and MAJ Paul Santamaria. “Reducing the Visual Signature of the M4A1 Rifle.” *Industrial and Systems Engineering Review* 4, no. 2 (November 12, 2016): 163–70. http://watsonojs.binghamton.edu/index.php/iser/article/view/65/pdf_26.

Comstock, MAJ James and Kimberly Ellis. “From Route Sharing to Collaborative Warehousing: The Development and Growth of Collaborative Logistics, 1995-2015.” *5th Annual World Conference of the Society for Industrial and Systems Engineering*. San Francisco, CA: SISE, October 2016. <http://www.ieworldconference.org/images/SISE2016CA/Comstock.pdf>.

Dabkowski, LTC Matthew. “Finding Globally Optimal Macro Structures in Multiple Relations Mixed Mode Social Networks.” Presentation at the 21st Annual Canada - US Army Operations Research Symposium, Kingston, Ontario, August 30- September 1, 2016.

Evans, 2LT Mike, 2LT Mike Lami, 2LT Brendan Madarasz, 2LT Benjamin Smith, and MAJ Chris Green. “Site Selection for Joint Logistics over the Shore (JLOTS) Operations Using Multi- Objective Decision Analysis.” *Industrial and Systems Engineering Review* 4, no. 2 (November 12, 2016): 88–95. http://watsonojs.binghamton.edu/index.php/iser/article/view/59/pdf_20.

Farr, John V., S. Jimmy Gandhi, and Donald N. Merino, eds. *The Engineering Management Handbook*. 2nd ed. Rolla, MO: The American Society of Engineering Management, 2016.

Goodman, 2LT Daniel, 2LT Shea Mullins, 2LT Josh McDonald, 2LT James Cho, and COL Gregory Boylan. “Identifying and Quantifying Critical Information Streams for Tactical Combat Decision Modeling.” *Industrial and Systems Engineering Review* 4, no. 2 (November 12, 2016): 74–81. http://watsonojs.binghamton.edu/index.php/iser/article/view/57/pdf_18.

Kress, Conrad, Keenan Wresch, Nicholas Celfo, Zoe Schorr, and **LTC Ernie Wong**. “FBI Cyber: Preventing Tomorrow’s Threats Today.” *The Cyber Defense Review* September 19, 2016. <http://www.cyberdefensereview.org/2016/09/19/fbi-cyber/>.

Martinez, 2LT Andres, Alexander Velazquez, 2LT Aaron Yoshizuka, 2LT Ryan Clark, and Vikram Mittal. “Developing an Exoskeleton Test Plan for the TALOS Program.” *Industrial and Systems Engineering Review* 4, no. 2 (November 12, 2016): 156–62. http://watsonojs.binghamton.edu/index.php/iser/article/view/63/pdf_25.

McDonald, Kenneth, 2LT Joshua Akers, 2LT Forrest Bartz, 2LT Daniel Beck, 2LT Israel Castro, and LTC Robert Prins. “Food Security Network Modeling.” *Industrial and Systems Engineering Review* 4, no. 2 (November 12, 2016): 114–30. http://watsonojs.binghamton.edu/index.php/iser/article/view/61/pdf_22.

McDonald, Kenneth, 2LT Tyler McLees, 2LT Shane Connolly, 2LT James McNulty, 2LT Leah Wasserman, and LTC Robert Prins. “Modeling Megacity Medical System Response to a CBRNE Event.” *Industrial and*

Systems Engineering Review 4, no. 2 (November 12, 2016): 131–48. http://watsonojs.binghamton.edu/index.php/iser/article/view/62/pdf_23.

Mittal, Vikram. “Advancements in Non-Stationary Power Solutions.” *International Journal of New Technologies in Science and Engineering* 3, no. 12 (December 2016). <http://ijntse.com/papers.php?sid=31&cid=6>.

Mittal, Vikram. “Design Parameters for Small Engines Based on Market Research.” Presentation at the SAE/JSAE 2016 Small Engine Technology Conference & Exhibition, Charleston, SC, November 15-17, 2016. doi: 10.4271/2016-32-0090.

Mittal, Vikram. “Ten Lessons Learned about Host-Nation Construction in Afghanistan.” *Military Review* 96, no. 5 (2016): 94–101. http://usacac.army.mil/CAC2/MilitaryReview/Archives/English/MilitaryReview_20161031_art015.pdf.

Motupalli, MAJ Jasmine. “Predicting Risks for Incidences of Homelessness Among Veterans of Iraq and Afghanistan.” Presentation at the Army Operations Research Symposium, Aberdeen Proving Ground, MD, November 2, 2016.

Rapp, Doug and **LTC Ernie Wong.** “Critical Infrastructure Exercise 16.2 – A Transformative Cybersecurity Learning Experience.” *Cyber Defense Review: Operations* (Blog), August 8, 2016, <http://www.cyberdefensereview.org/2016/08/08/critex16/>.

Talmadge, 2LT Ramsay, 2LT Luke Jenkins, 2LT Drew Hidalgo, 2LT Josh Olivas, and Roger Burk. “Alternatives for Navigating Small Unmanned Air Vehicles Without GPS.” *Industrial and Systems Engineering Review* 4, no. 2 (November 12, 2016): 113–96. http://watsonojs.binghamton.edu/index.php/iser/article/view/60/pdf_21.

Center for the Advancement of Leader Development and Organizational Learning LTC Raymond Kimball, Director

Kimball, LTC Raymond A. *Combined Joint Task Force Horn of Africa: From Crisis Action to Campaigning, Special Study 16-19.* Ft. Leavenworth: Center for Army Lessons Learned, 2016, <http://usacac.army.mil/sites/default/files/publications/16-19.pdf>.

USMA Library Christopher Barth, Librarian and Associate Dean

Seminelli, Heather. “Librarian as Professional.” *Serials Librarian* 71, no. 1 (July 2016): 63-69. doi: 10.1080/0361526X.2016.1168667.

Network Science Center LTC Jonathan W. Roginski, Director

Mellon, Jonathan, Jordan Yoder, and **Daniel Evans.** “Undermining and Strengthening Social Networks through Network Modification.” *Scientific Reports* 6 (February 8, 2016): 34613. doi: 10.1038/srep34613.

Department of Military Instruction COL Jonathan Neumann, Department Head

Boroff, Karen E., **MAJ John Spencer,** and COL John Via. “Going Off-Duty Doesn’t Protect Online Behavior.” *Army Magazine* 66, no. 8 (2016): 24–25.

Davis, MAJ Nathaniel B. “If War Can Have Ethics, Wall Street Can, Too.” *New York Times* Opinion Pages, October 4, 2016. http://www.nytimes.com/2016/10/03/opinion/if-war-can-have-ethics-wall-street-can-too.html?_r=0.

Lahoud, Nelly and **COL Liam Collins.** “How the CT Community Failed to Anticipate the Islamic State.” *Democracy and Security* 12, no. 3 (July 2, 2016): 199–210. doi: 10.1080/17419166.2016.1207448.

Call for Published Scholarship

The Office of the Dean and the USMA Library are continuing to seek the submission of scholarship published by cadets, faculty, and staff in order to better promote and celebrate the contribution by USMA personnel to scholarly communication across all disciplines.

Work should be original scholarship, and can include monographs, journal articles, bibliography, conference presentations and papers, research posters, literature, art, poetry, film, and music.

The period of interest for the next Dean's Celebration of West Point Authors is 01 January - 30 June 2017. Please submit your work to your library liaison listed below:

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Chemistry and Life Science	Manja Yirka
Civil and Mechanical Engineering	Laura Mosher
Electrical Engineering and Computer Science	Nick Olijnyk
English and Philosophy	Susan Lintelmann
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Geography and Environmental Engineering	Alicia Mauldin-Ware
History	G. Corey Harmon
Law	Suzanne Christoff
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Physics and Nuclear Engineering	Elaine McConnell
Social Sciences	Michael Arden
Systems Engineering	Daniel Pritchard
Military Instruction	Daniel Pritchard
Physical Education	Celeste Evans
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